

WHAT IS CLAIMED IS:

1. An electrically opening and closing mechanism comprising:

electrically driving means for electrically rotating a first member which is rotatably mounted on a second member;

a first clutch which is engaged for allowing said first and second members to frictionally contact each other when said first member is manually rotated;

a second clutch which is engaged for allowing said first and second members to frictionally contact each other when said first member is rotated by said electrically driving means; and

an operating part for disengaging said first clutch and engaging said second clutch when said operating part is pushed.

2. An electrically opening and closing mechanism as set forth in claim 1, wherein each of said first and second clutches is a friction clutch.

3. An electrically opening and closing mechanism as set forth in claim 1, wherein said first clutch, said second clutch, said operating part and said electrically driving means are arranged concentrically with a rotation center of said first and second members.

4. An electrically opening and closing mechanism as set forth in claim 1, wherein said operating part serves as a rotation supporting portion for rotatably supporting thereon said first and second members.

5. An electrically opening and closing mechanism as set forth in claim 1, wherein said first clutch comprises a pair of friction members, one of which is pressed against the other of said friction members by a spring, and

said pair of friction members have a recess and a protrusion, respectively, said recess engaging said protrusion when said first member relatively rotates by a predetermined angle.

6. An electrically opening and closing mechanism comprising:

electrically driving means for electrically rotating a first member which is rotatably mounted on a second member; and

a friction clutch which is engaged for allowing said first and second members to frictionally contact each other and which is rotated by said electrically driving means, when said first member is rotated by said electrically driving means.

7. An electrically opening and closing mechanism as set forth in claim 6, wherein said friction clutch and said electrically driving means are arranged concentrically with a rotation center of said first and second members.

8. An electrically opening and closing mechanism as set forth in claim 1, which further comprises a sensor for detecting that said first member rotates to a predetermined angle, and wherein said electrically driving means is rotated in a reverse direction in response to a detection signal of said sensor.

9. An electrically opening and closing mechanism as set forth in claim 6, which further comprises a sensor for detecting that said first member rotates to a predetermined angle, and wherein said electrically driving means is rotated in a reverse direction in response to a detection signal of said sensor.